Cells Research and Design...........................Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

http://www.biology.ualberta.ca/facilities/multimedia/ (Go to Cell biology)

http://www.biologycorner.com/resources/square.gifAnimal Cell Mix & Match (check box after each page is studied)  
http://www.biologycorner.com/resources/square.gifComparing Prokaryotic and Eukaryotic Cells   
http://www.biologycorner.com/resources/square.gifPlant Cell Mix & Match

www.cellsalive.com

http://www.biologycorner.com/resources/square.gifanimal cell model   
http://www.biologycorner.com/resources/square.gifplant cell model   
http://www.biologycorner.com/resources/square.gifbacteria cell model

As you view the sites, fill out the following table.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Found In (check | | | Function | Sketch |
|  | Animal | Plant | Bacteria |  |  |
| Nucleus |  |  |  |  |  |
| Chromatin (DNA) |  |  |  |  |  |
| Lysosome |  |  |  |  |  |
| Mitochondria |  |  |  |  |  |
| Flagella |  |  |  |  |  |
| Smooth ER |  |  |  |  |  |
| Rough ER |  |  |  |  |  |
| Golgi Apparatus |  |  |  |  |  |
| Cytoplasm |  |  |  |  |  |
| Ribosome |  |  |  |  |  |
| Nucleolus |  |  |  |  |  |
| Cell Wall |  |  |  |  |  |
| Vacuole |  |  |  |  |  |
| Chloroplast |  |  |  |  |  |

Build Your Own Cell Model

Using image editing software (Microsoft Paint, Photoshop, etc) create your own color diagram of the cell. Use the following guidelines. Turn in your model using a disk, jump drive, or email. Another interesting site is at [artpad](http://artpad.art.com/artpad/painter/), where you can paint your cell online and email it to your teacher.

* Identify whether your cell is a plant or an animal (no bacteria)
* All relevant cell organelles and parts must be represented and labeled
* You may NOT cut/paste other models you might find on the web, but you're welcome to use them for ideas.